

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/050007

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F9/445

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/156970 A1 (STEWART DAVID C) 24 October 2002 (2002-10-24) cited in the application paragraph '0003! paragraph '0009! paragraphs '0011! - '0013! figures 1-5	1-11
Y	EP 0 757 310 A (HEWLETT-PACKARD COMPANY) 5 February 1997 (1997-02-05) abstract column 1, lines 3-8 column 2, line 38 - column 6, line 26 column 9, lines 32-40 column 10, lines 21-30 figures 1-6b	1-11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

25 April 2005

Date of mailing of the international search report

11/05/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 235 692 A (AYRES ET AL) 10 August 1993 (1993-08-10) column 1, lines 7-50 column 3, line 46 - column 4, line 9 column 4, line 52 - column 7, line 30 figures 1-14 -----	1-11
A	US 6 145 058 A (SUGANUMA ET AL) 7 November 2000 (2000-11-07) column 1, lines 7-11 column 2, line 5 - column 3, line 11 column 3, line 47 - column 4, line 25 figures 1-10 -----	1-11
A	US 5 475 859 A (KAMABAYASHI ET AL) 12 December 1995 (1995-12-12) abstract column 2, line 28 - column 5, line 25 column 5, line 63 - column 6, line 65 figures 1-8 -----	1-11

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/050007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002156970 A1	24-10-2002	US 2003084239 A1	01-05-2003
EP 0757310 A	05-02-1997	US 5787482 A	28-07-1998
		EP 0757310 A2	05-02-1997
		JP 9050667 A	18-02-1997
US 5235692 A	10-08-1993	JP 1998446 C	08-12-1995
		JP 4288615 A	13-10-1992
		JP 7027438 B	29-03-1995
US 6145058 A	07-11-2000	JP 3159118 B2	23-04-2001
		JP 10293717 A	04-11-1998
US 5475859 A	12-12-1995	JP 2068639 A	08-03-1990
		JP 2637788 B2	06-08-1997
		US 5369751 A	29-11-1994